

C-Bus 40 Series Modules

Life Is On

CLIPSAL
by Schneider Electric

- 1 Follow these installation instructions
- 2 C-Bus requirements



Catalogue numbers

5041NMML	C-Bus 40 series master module
5041NMS	C-Bus 40 series slave module
5005C305B	C-Bus Cat 5e, 4-Pair, UTP cable, solid conductors
5005C305BST	C-Bus Cat 5e, 4-Pair, UTP cable, stranded conductors

Configuration

- The C-Bus 40 series master module is a C-Bus key input device that is assigned a unique unit address on the network.
- Maximum configuration is 1 master module and 3 slave modules. Minimum configuration is a master module.
- The C-Bus 40 series master module is a control switch only which is never directly connected to power. The C-Bus network uses unshielded twisted pair Cat 5e, 4-Pair. The C-Bus network powers the master module. Both master and slave modules have LED indicators. Slave modules are powered from the master module.
- Optional slave modules have a ribbon cable with a female connector that attaches to a socket in the master module.
- C-Bus Toolkit software is used to program the master module and its associated slave modules. Using software not provided by Clipsal may void any warranties applicable to the hardware.



For your safety

⚠️ ⚠️ DANGER

HAZARD OF ELECTRIC SHOCK, EXPLOSION, OR ARC FLASH

- It is illegal for persons other than an appropriately licensed electrical contractor or other persons authorised by legislation to work on the fixed wiring of any electrical installation.
- To comply with all safety standards, the modules must be used only for the purpose described in this instruction and must be installed in accordance with the wiring rules and regulation in the location where it is installed.
- Lock out and tag the input circuit before accessing the wiring connections.
- The Locking Bar on grids must be set to the Closed position to ensure that the module cannot be removed during normal operation.
- There are no user serviceable parts inside the product.

Failure to follow these instructions will result in death or serious injury.

⚠️ CAUTION

EQUIPMENT DAMAGE HAZARD

- Install the device according to instructions in this document.
- Pay attention to the specifications and wiring diagrams related to the installation.
- Do not use this product for any other purpose than specified in this instruction.
- Do not megger test.
- Never connect the C-Bus 40 series master module directly to the mains power supply.

Failure to follow these instructions can result in injury or equipment damage.

NOTICE

EQUIPMENT DAMAGE HAZARD (LOAD AND OPERATION)

- To be used indoors only, unless installed in an IP rated enclosure.
- Choose a location free of water, humidity and direct sunlight.
- Allow adequate ventilation.
- Do not operate the product for prolonged periods in extreme conditions.

Failure to follow these instructions can result in equipment damage.

C-Bus Requirements

Programming

Create relationships between input and output units without a PC using learn mode: <https://www.youtube.com/watch?v=8oN3KGNglsw>, to link multiple units into a common network. Assign a load like a light on a dimmer with a controller (wall switch). Basic settings created in learn mode may need to be overridden to create a particular effect, using the latest C-Bus Toolkit software available from www.clipsal.com/trade/support/software.

C-Bus Power

C-Bus master modules draw 18 mA from the C-Bus network, regardless of the number of slaves connected. Adequate C-Bus power supply modules must be installed to support connected devices. The network window of a C-Bus Toolkit project provides a summary of a C-Bus network according to the modules added.

Installation

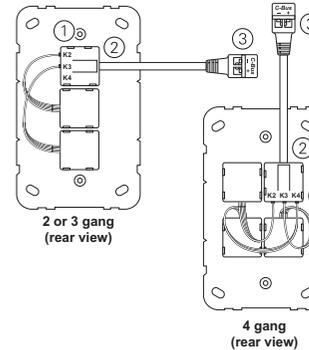
Mounting in the Iconic grid plate

C-Bus 40 series modules can only be used with Iconic grid plates.

Master modules

- 2 and 3 gang plate:** Install the master module in top position ①.
- 4 gang plate:** Install master in top left ①.

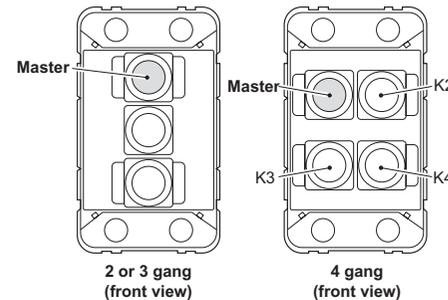
Note: C-Bus fly-lead cable ③ must be plugged to the right ② in 2 and 3 gang plates, and to the top in 4 gang plates.



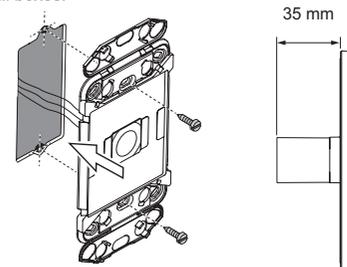
Slave modules

On 4 gang grid plates install the slave module to match key numbering in programming:

- K2 in top right
- K3 in bottom left, and
- K4 in bottom right.

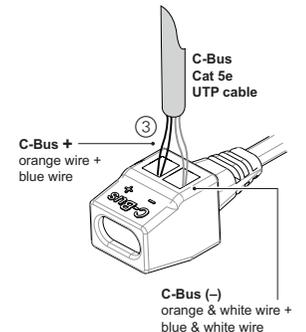
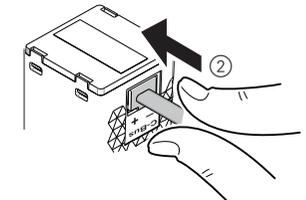
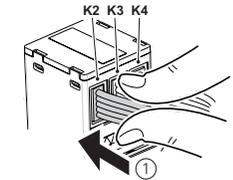


Note: Be careful of cables and screw fixings when mounting in wall boxes.



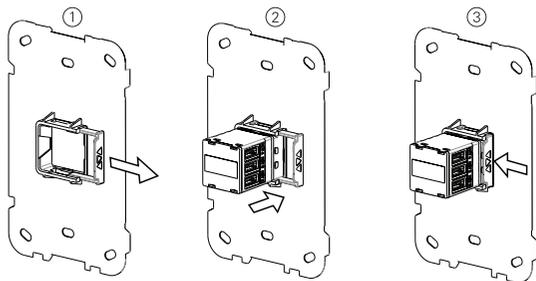
Connecting slave to master and to C-Bus

- ① Attach up to 3 slave modules to the master using the ribbon cable. When removing a connector from the module, pull carefully on the ribbon to remove.
- ② Use the supplied pink Plug-in C-Bus Fly Lead Terminal to connect the master module to the C-Bus Cat 5e UTP cable.
- ③ Use C-Bus Cat 5e UTP cable (solid or stranded) and connect C-Bus positive (blue + orange) to the terminal marked +, and C-Bus negative (blue/white + orange/white to the terminal marked -.



Fitting and removing the module to the grid plate

- ① Move the locking bar to the open position. **Note:** On 3-gang plates, the locking bar is a single piece covering all cut-outs.
- ② Push the head of the module into the plate cut-out until the module clicks into place.
- ③ Once the module is installed in the plate (or all modules if using multi-gang plates), move the locking bar to the closed position.



Removing the module from the grid plate

- ① To remove, repeat step ① in **Fitting and removing the module to grid plate** (above).
- ② On the front of the grid plate gently press the green edges of the module to release, until it clicks out.

Note: See product data sheet for full specifications. Specifications typical at 25 °C.

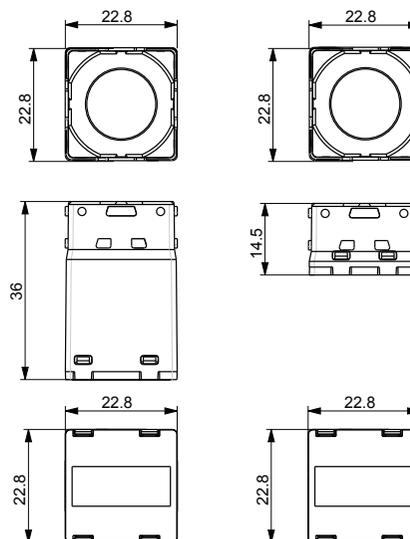
C-Bus supply voltage	15–36 V d.c.
Power requirement	18 mA. The switch does not provide current to the C-bus network.
C-Bus AC input impedance	100 kΩ @ 1 kHz
Max number of units per network	100
Control function	Load switching, dimming, timers, scene control
Status indicators	User configurable, red or blue
Warm-up time	5 seconds
C-Bus connection	Twisted pair, UTC Cat 5e
Operating temperature	0 to 45 °C
Operating humidity	10–90% RH, non-condensing

Compliance

RCM	AS/NZS CISPR 15
	AS/NZS CISPR 14.1
	AS/NZS 60669.2.1

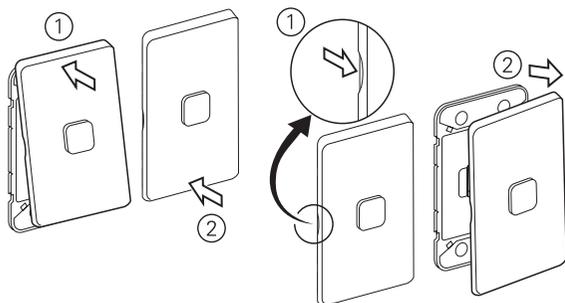
Dimensions

Parameter	Master	Slave
Dimensions	22.8 × 22.8 × 36 mm	22.8 × 22.8 × 14.5 mm
Protrusion from wall	as per grid plate used	as per grid plate used
Weight	13 g	7 g



Installing the skin

Removing the skin



Warranty information (Australia)

We warrant this product for 2 years, for more details:

<https://www.schneider-electric.com.au/en/about-us/legal/terms-and-conditions.jsp>
Our goods also come with guarantees that cannot be excluded under the Australian Consumer Law. You are entitled to a replacement or refund for a major failure and compensation for any other reasonably foreseeable loss or damage. You are also entitled to have the goods repaired or replaced if the goods fail to be of acceptable quality and the failure does not amount to a major failure.

Warranty information (New Zealand)

We warrant this product for 2 years, for more details:

<https://www.schneider-electric.com.co.nz/en/about-us/legal/terms-and-conditions.jsp>



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